



DR MPI: 2002-352536/38.  
 DR N-PSDB: ABN69678.  
 XX New Streptococcus protein for the treatment or prevention of infection  
 PT or disease caused by Streptococcus bacteria, such as meningitis, and  
 PT for detecting a compound that binds to the protein -  
 PS Claim 1: Page 3879; 4525bp; English.  
 XX  
 CC The invention relates to a protein (ABP25413-ABP30895) from group B  
 CC Streptococcus/GBS (Streptococcus agalactiae) or group A streptococcus/GAS  
 CC (Streptococcus pyogenes), comprising one of 5483 sequences (SI), given in  
 CC the specification. The proteins have antibacterial and anti-inflammatory  
 CC activity. (I), nucleic acids encoding (I), ABN6044-ABN71526 and  
 CC antibodies that bind (I) are used in the manufacture of medicaments for  
 CC the treatment or prevention of infection or disease caused by  
 CC Streptococcus bacteria, particularly S. agalactiae and S. pyogenes.  
 CC Nucleic acids encoding (I) are used to detect Streptococcus in a  
 CC biological sample. (I) is used to determine whether a compound binds to  
 CC (I). A composition comprising (I) or a nucleic acid encoding (I), may be  
 CC used as a vaccine or diagnostic composition. The disease caused by  
 CC Streptococcus that is prevented or treated may be meningitis. Nucleic  
 CC acid encoding (I) may be used to recombinantly produce (I) and may be  
 CC used in gene therapy. Antibodies to (I) are used for affinity  
 CC chromatography, immunoassays, and distinguishing/identifying  
 CC Streptococcus proteins.  
 XX  
 SO Sequence 762 AA:  
 Query Match 100.0%; Score 3945; DB 23; Length 762;  
 Best Local Similarity 100.0%; Pred. No. 2,4e-285;  
 Matches 757; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 1 MKKTRPKNLNTINTORVLSKNSKRPVTLVGVFLMIFALVTSWGAKTVEGLVSSSTPN 60  
 6 MKKTRPKNLNTINTORVLSKNSKRPVTLVGVFLMIFALVTSWGAKTVEGLVSSSTPN 65  
 61 AINPDSSSEFRWGYSSYRGHYYKQFVANDLRNLGSSNSYQYCCNLKAPLGSD 120  
 66 AINPDSSSEFRWGYSSYRGHYYKQFVANDLRNLGSSNSYQYCCNLKAPLGSD 125  
 121 SSYKKYKKKHDGISTFEDYAMSPRTGDELNOKLRVWYNGPQANGLMEGLEPLNI 180  
 126 SSYKKYKKKHDGISTFEDYAMSPRTGDELNOKLRVWYNGPQANGLMEGLEPLNI 185  
 181 RYTOEAVWYSDNAPISNDESEKRESNLSVSTSLMRQALKQIDIPNLATKMPKV 240  
 186 RYTOEAVWYSDNAPISNDESEKRESNLSVSTSLMRQALKQIDIPNLATKMPKV 245  
 241 PDFOFSLIFESDEKGGKYNKGYONLLSGGLVPTKPTPDPPMPNOPTSVLRKYAI 300  
 246 PDFOFSLIFESDEKGGKYNKGYONLLSGGLVPTKPTPDPPMPNOPTSVLRKYAI 305  
 301 GDVSKLLEGATLQTLTDNNTNSFOARVSSNDIGERIELSDGYTLTLELNSPAGYSTAEP 360  
 306 GDVSKLLEGATLQTLTDNNTNSFOARVSSNDIGERIELSDGYTLTLELNSPAGYSTAEP 365  
 361 TEKVEAGKYYTIIIDGKQIENPKKEIPEYSVEAYNDEFEEFVLTQNTAKFYANKNGS 420  
 366 TEKVEAGKYYTIIIDGKQIENPKKEIPEYSVEAYNDEFEEFVLTQNTAKFYANKNGS 425  
 421 SOVVYCFENADLSPSPSEDEGKTMPTDFTTGVKYYTHINGRDLFKYTVAPRPTDPTFLK 480  
 426 SOVVYCFENADLSPSPSEDEGKTMPTDFTTGVKYYTHINGRDLFKYTVAPRPTDPTFLK 485  
 481 HKKVIENKYGKQAIIEYSGLTETQLRAATQLAIFYTDSALDLKDKLVHGFQDMND 540  
 486 HKKVIENKYGKQAIIEYSGLTETQLRAATQLAIFYTDSALDLKDKLVHGFQDMND 545  
 541 STLAAKILVEYAQDSNPOLTDLDFEIPNNKYSOLSTQWHPEDLVYDIIMEDKKEYI 600  
 546 STLAAKILVEYAQDSNPOLTDLDFEIPNNKYSOLSTQWHPEDLVYDIIMEDKKEYI 605

QY 601 PYTHNLTRKTYTGLAGRTDFFHEIELKNNKQELLQYVTKDTNLEFROGATINLK 660  
 DB 606 PYTHNLTRKTYTGLAGRTDFFHEIELKNNKQELLQYVTKDTNLEFROGATINLK 665  
 QY 661 HGESLTGLDEGYSYLVKENDSGYKVKVNSOEVANATVSKGTSTETLAFNNKPEV 720  
 DB 666 HGESLTGLDEGYSYLVKENDSGYKVKVNSOEVANATVSKGTSTETLAFNNKPEV 725  
 QY 721 VPTGVQKINGLIALIVAGISLGIWGIHTIRIRKHD 757  
 DB 726 VPTGVQKINGLIALIVAGISLGIWGIHTIRIRKHD 762  
 RESULT 2  
 ABP29050  
 ID ABP29050 standard; Protein; 340 AA.  
 XX  
 AC ABP29050;  
 XX  
 DT 02-JUL-2002 (first entry)  
 XX  
 DE Streptococcus polypeptide SEQ ID NO 726.  
 XX  
 KW Streptococcus; GAS; GBS; group B streptococcus; Streptococcus agalactiae;  
 KW group A streptococcus; Streptococcus pyogenes; antibacterial;  
 KW anti-inflammatory; infection; vaccine; meningitis; gene therapy.  
 XX  
 OS Streptococcus pyogenes.  
 XX  
 PN WO200234771-A2.  
 PD 02-MAY-2002.  
 PF 29-OCT-2001; 2001WO-GB04789.  
 PE 27-OCT-2000; 2000GB-0026333.  
 PR 24-NOV-2000; 2000GB-0028727.  
 PR 07-MAR-2001; 2001GB-0005640.  
 XX  
 PA (CHIR-) CHIRON SPA.  
 PA (GENO-) INST GENOMIC RES.  
 PI Telford J, Masiagnan V, Margalit Ros YI, Grandt G, Fraser C;  
 PI Tettelin H;  
 XX  
 DR MPI: 2002-352536/38;  
 DR N-PSDB: ABN69681.  
 XX  
 PT New Streptococcus protein for the treatment or prevention of infection  
 PT or disease caused by Streptococcus bacteria, such as meningitis, and  
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 CC Streptococcus proteins.  
 CC  
 SO Sequence 340 AA: